SAPAK, K.

no academic degree indicated

First Clinic for Obstetrics and Female Diseases (I. zenska a porodnicka klinika)
Bratislava; Director: Prof. S. STEFANIK, MD.

Bratislava, Bratislavske Lekarske Listy, No 9, Nov 62, pp 516-522.

"The Vegetative Tonus and Excitability of Women in Climacteric" (Preliminary Report)

Effect of placental gonadotropic hor adrenalectomized rats. Cesk. gyn. 2 1. Katedra starostlivosti o matku Le	
prof. dr. Sv. Stefanik. (GONADOTROPINS CHORIONIC) (ADRENALECTOM	(QENITALIA FEMALE)

			
	PONTICH	I, A.; ZAJACOVA, E.; SAPAK, K.	
		The problem of the stump after supravaginal amputation of	ja,
		The problem of the stump of 5-27-3/2 Je 463.	1,5
		the uterus. Cesk. gyn. 28 no.5:337-342 Je 163.	1.1
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		O J. U Statenik.	
		(CARCINOMA, EPIDERMOID) (COLPOSCOPY)	
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		하는 도움 등 한 집에 가는 하는 그는 하는 모양이 되었다. 그는 사람들이 가는 사람들이 되었다.	
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		그는 병에 가는 얼마나 가는 그들은 내가 가장 살아 있다. 그는 말이 가장 그렇게 하는 것이 살았다.	
		그는 그 그 가 가는 그는 일은 그가 일하는데 일 일도 그가는 모든 모든 가지는 수가 들어갔다. 등 말했다.	
	1 4	말이 되었다. 그는 그리지 하면 없는 경우 가장 이 전 시간에 하는 모양하면 연락하면 하다 英國	
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		사람이 보다 사용하는 사람들은 사람들이 되었다. 그리는 사람들은 사람들이 가지 않아 다른 國際學	
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PONTUCH, A.; SKLOVSKA, M.; SAPAK, K.

Intrauterine fetal death from data of the 1st gynecological and Obstetrical Hospital in Bratislava for the years 1951 through the 1st half of 1962. Cesk.gynek. 28 no.8:525-529 0 '63.

1. I. zen. a por. klin. Lek. fak. UK v Bratislave, prednosta prof. dr. S. Stefanik.

PONTUCH, A.; CATAR, G.; ELISCHEROVA, K.; BARDOS, A.; ZAJACOVA, E.; SKLOVSKA, M.; SAPAK, K.; SZOLD, L.

Role of toxoplasmosis and listeriosis in the causes of premature labor. Cesk. gynek. 29 no.4:262-265 My'64

1. I. gyn.-por. klinika Lek. fak. UK [University Komenskeho] v Bratislave (prednosta: pref. dr. S.Stefanik); Ved.lab. paraz. Lek. fak. UK [University Komenskeho] v Bratislave a Ustav epid. a mikrob. Lek. fak. UK [University Komenskehe] w Bratislave (prednosta: doc.dr. J.Karolcek).

SAPAK, K.; SKLOVSKA, M.; PONTUCH, A.

Little known causes of premature labor. Cesk. gynek. 29
no.6:466-469 Ag '64.

1. I. gyn.-por. klin. Lek. fak. Karlovy University v Bratislave (prednosta prof. dr. S. Stefanik).

Use of corticoids in gynecology and obstetrics. Cesk. gynek. 30 no.1:22-25 Mr ¹ 65.	
1. I. gynpor. klinika Lekarske fakulty University Komenskeho v Bratislave (prednosta: prof. dr. S. Stefanik).	

PONTUCH, A.; SAPAK, K.; SKLOVSKA, M.; SASKO, A.

Consultation services of allied disciplines in our clinical material. Cesk. gynek. 30 no.9:708-711 N '65.

1. I. gyn.-por. klinika Lekarske fakulty Univerzity Komenskeho v Bratislave (prednosta prof. dr. S. Stefanik).

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V	SAPAK,	A SAMPLE CONTROL OF THE CONTROL OF T
		A contribution to the effect of orytocin on the sugar metabolism. Bratisl. lek. listy 45 no.9:554-557 15 My 65.
		1. I. zenska a porodnicka klinika Lekarske fakulty Univerzity Komenskeho v Bratislave (veduci:prof. MUDr. S. Stefanik).
		일이라고 하는 사람들은 아이들 이 그리고 있는 사람이 있는 사람들은 그리고 있다.
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ring. Landau		그는 집에 하는 그 아이는 반대를 받는 사람들을 가는 그는 사람들은 사람들이 되었다.
		그리 그리 집 그는 이번 회사에 가는 마시 회에 들어 그 때문에는 만함되고 됐다.
		그리에 하는 이 모든 이 그는 이 아이는 그 그들은 이 남은 그가 먹는 그가 얼마 뭐 얼마 뭐 뭐야?
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		그리는 그들은 이 이러를 하는데 보다 하는데 하는데 하는데 살아가 살아갔다. (요. ######
		그는 그 그리는 이 보고 있다. 그 있는데, 말 그 일 본 속은 보기가 된 되었다. 이 建築 蔡
		물이 하다들은 요즘에는 회문화를 만든데요 하다. 하다는 하는 전 하는데는 말로운 됐다.
		그는 이 눈을 되었다. 그 하는데 그런 그 그들은 이 토를 하지 않는 그 살이 하나왔다.
		이 그는 사람들은 사람들은 이 이 사람들이 하는 것이 되었다면 하는데 모든 내용했다.

BARDOS, A.; SAPAK, K.

Effect of spasmolytic drugs on the course of labor and normal uterine contractility. Cas. lek. cesk. 103 no.35:957-951 28
Ag '64.

1. I zenska a porodnicka klinika v Bratislave (prednosta prof. dr. S. Stefanik).

SAPALA, C.

Comparing synchronous and asynchronous motore. p. 153

Wiadomosci Elektrotechniczne. (Stowarzyszenie Elektrykow Polskich, Centralny Zarzad Energetyki, Centralny Zarzad Przemsysly Kablowego) Warszawa, Poland Vol. 15, no. 7, July 1955

Monthly list of East European Accessions (EEAI) IC, Vol./no. 2, Feb. 1969
Uncl.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447120020-0"

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4 - -	•	धर्मवसम्बद्धात्रकः एकिस्पराध्यास्य। १	
TITLE: A method for producing	ng an epoxyfuran binder. Cl	ass 39, No. 168420	≠10 - 20
SOURCE: Byulleten' izobreter			Ď
		15	: .
TOPIC TAGS: epoxy resin, tre	msparent plastic, bonding m	material '	
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CIA-RDP86-00513R001447120020-0

ACCESSION NR: AP4041343

5/0115/64/000/005/0024/0024

AUTHOR: Remizov, O. V.; Sapankevich, A. P.

TITLE: Scheme for detecting a hot spot in a wall

SOURCE: Izmeritel'naya tekhnika, no. 5, 1964, 24

TOPIC TAGS: hot spot, hot spot detector, film type boiling

ABSTRACT: The scheme depends on the variation of electric resistivity with temperature. A metal "specimen" introduced into a column of boiling water (and also used as an electric heater) will have a higher temperature at the top. A bridge circuit is connected to point 2 (see Enclosure 1) through a special high-pressure bushing (design sketch supplied); the bridge unbalance voltage is made to automatically turn off the power heating the water. Such a scheme may protect the automatically turn off the power heating the water. Such a scheme may protect the heat-producing surface from formation of a hot spot when the boiling reaches its critical point and changes into a vapor-film type. Orig. art. has: 2 figures and

ASSOCIATION: none

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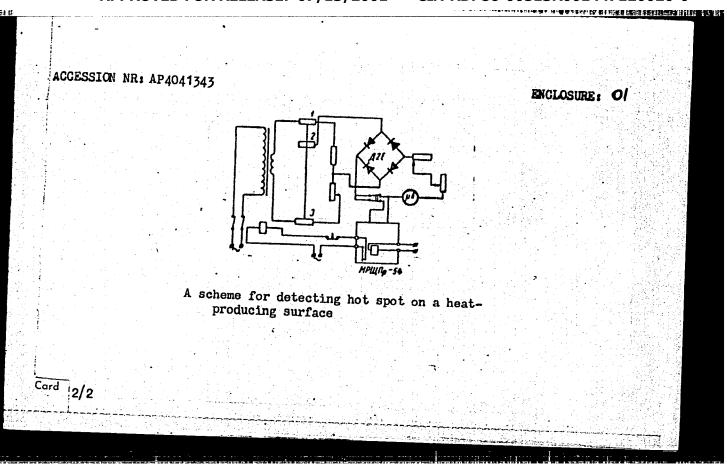
SUB CODE: EC, IE

NO REF SOV: 000

ENCL: 01

OTHER: 000

Card | 1/2



SAFANKEVICH, P. V.

"Biology of the Blooming and Fruit-Bearing Capacity of the Spindle Tree." Thesis for degree of Cand. Agricultural Sci. Sub. 18 May 19, Inst of Forestry, Acad Sci USSR.

Summary 82, 13 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

SAPANKEVICH, P.V. Frocurement of roots of the spindle tree and its natural regeneration. Trudy Inst. lesa 46:44-46 !58. (MIRA 11:6) 1. Bryanskiy lesokhozyaystvennyy institut. (Spindle tree)	
l. Bryanskiy lesokhozyaystvennyy institut.	
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COUNTRY	USSH Karnet Cultures K	2
	ROLGERTAR TOLERO OUTOURES	
ABS. JOUR.	: RZhBiol., No. 2, 1959, No. 6175	
AUTHOR	: Sapankevich, P.V. : Forestyy Institute AS USSR	
inst. Title	: Ripeness of Reeds and Intraction of The It	
	Dormant Stage.	
ORIG. PUB.	: Tr. In-ta lusa AN SSSR, 1958, 46, 142-147	
ABSTRACT	: The processes occurring during the seed ribening are described, criteria are estab-	
	listed for different degrees of freehess of	
	tree and the warty spindle tree, and soil	
	ag by different methods, epending on the	
	the best ripeness of the spindle tree seed is reached in the second phase of naturity	
CARD:	1/2	
		独 盘

30(1)

SOV/26-59-5-31/47

AUTHOR:

Sapankevich, P.V.

TITLE:

The Indoor Flowering of a Ficus

PERIODICAL:

Priroda, 1959, Nr 5, pp 111 - 112 (USSR)

ABSTRACT:

The author describes flowering of a Ficus elastica Roxl. Although an unusual event in a northern country, it occurred to A.I. Grishin (presumably at Bryansk) who had a 3-year-old specimen of this plant, which he kept at home in a poor lighted room with a temperature between 8 and 24°C. It flowered once only (in 1953/54), but not since it was transferred to the Bryansk Forestry Institute, where conditions may have been different. There is 1

diagram.

ASSOCIATION: Bryanskiy lesokhozyaystvennyy institut (Bryansk

Forestry Institute)

Card 1/1

SAPANKEVICH, P. V., Doc Biol Sci (diss) -- "Standstill of seeds of certain woody and scrub plants". Krasnoyarsk, 1960. 42 pp (Acad Sci USSR, Siberian Dept, Inst of Forestry and Wood Fiber), 130 copies (KL, No 14, 1960, 129)

						
SAPAN	KEVICH, P. V.					
Disser at the	rtation defer e Institute o	nded for the dep of Forest and Wo	gree of Doctor ood; Siberian I	of Biologica Branch	al Sciences	
"Dorma	ancy of the	Seeds of Severa	l Wood and Brus	sh Plants."		
Vestn	ik Akad. Na	uk, No. 4, 1963	, pp 119-145			

SAPANKEVICH, P.V.; MAKSIMOVA, N.A.; KHOMENKO, B.P.

Effect of aqueous extracts from the rhyzomes of Bermuda grass on the germination of some crop plant seeds and the growth of their rootlets. Agrobiologia no.6:915-916 N-D '65.

(MIRA 13:12)

1. Uchebnoye khozyaystvo "Kommunar" Krymskogo sel'skokhozyaystvennogo instituta imeni M.I.Kalinina.

' USSR / Forestry. Dendrology.

4-3

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72795.

Author : Sapankevich, Z. F.

Inst : Bryansk Silviculture Institute.

Title: Vernation and Bud Development of C. Avellana.

Orig Pub; Tr. Bryanskogo lesokhoz. in-ta, 1956, 7, 125-131.

Abstract: By observations in Bryansk Oblast, it was established that three types of buds are formed on young shoots of C. avellana during spring and summer. From some buds, vegetating shoots are developed, from others - male inflorescences, from still others - rooted vegetating shoots with 3-8 leaves, which carries the fruit group upwards. Meristematic tubercles in the axil of the leaf rudiments are established at the end of June; toward autumn,

they form 2-5 bud tegulae and, in that condition,

Card 1/3

USSR / Forestry. Dendrology.

K-3

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72795.

Abstract: pass through the first winter. From May of the following year, the meristematic tubercles are completely differentiated in the developing axillary buds and pass into the second winter in this manner. In spring they form vegetating shoots. Vernation of the amenta begins after cessation of active growth of the shoot. In 2-3 months after the male inflorescences are completely formed, female inflorescences begin to form. The dynamics of the flowering of C. avellana are described. The existing opinion on the bilocular ovary in C. avellana is refuted. In the earlier stages of the development of the pistil and ovary, it is found more often along 4 ovules and, at the moment of ruition, two of them remain. Two other ovules remain underdeveloped. As a rule, of the

Card 2/3

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3/124/60/000/008/001/011 A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 8, p. 2, # 9758

AUTHOR:

Sapar.

TITLE:

On Certain Problems of the Motion of an Artificial Earth's

Satellite

PERIODICAL: V sb.: Priroda i matem. Vol. 1, Tallin, 1959, pp. 21-43 (Estonian;

Russian and English summaries)

The author broaches in his article some problems in connection with TEXT: the motion of an artificial earth's satellite. In the first part of the article, the problem is considered of launching a satellite into the orbit by means of an accelerating rocket, in the general casea multistep one. It follows from the calculations that the variation in time of the angle of pitch (the angle between the horizontal plane and the direction of the reactive force) under certain simplifying assumptions is not dependent on the fuel combustion conditions. angle of pitch can be controlled by the direction of the gas stream flowing out of the nozzle. It is evident that the combustion with maximum intensity is most effective, because the expenditure for fuel transportation in the gravity field

Card 1/3

83786 S/124/60/000/008/001/011 A005/A001

On Certain Problems of the Motion of an Artificial Earth's Satellite

decrease in this case. The solution of the problem in explicit form is complicated in the case of a multi-stage rocket booster, and it is expedient to solve the problem in implicit form. As a solution of the problem, the boundary curve of a family of implicit functions appears. In the second part, formulae are given for determining the instantaneous orbit and formulae for determining the variations of the instantaneous orbit. It is shown that the secular perturbations of the perigee distance from the ascending node and of the longitude of the ascending node are caused by the noncentrality of the gravitation field in consequence of the oblateness of the Earth. The total energy of the artificial Earth's satellite certainly does not decrease hereat. In the third part of the article, the evolution of the orbit is shown. The orbit of the satellite will tend to the circular shape in consequence of the air resistance; hereat, the altitude of the perigee varies slowly, essentially more slowly than that of the apogee. To a first approximation, the instant of the attainment of the circular orbit shape may be assumed to be the end of the satellite's lifetime. In the fourth part, problems are considered in connection with the visible motion of the satellite in reference to the observer at a definite point of the globe.

VX

Card 2/3

83786 S/124/60/000/008/001/011 A005/A001

On Certain Problems of the Motion of an Artificial Earth's Satellite

Formulae are given for the approximate forecasting of the time point of culmination, the azimuth, and the angle of elevation of the satellite on the following day.

Summary

Translator's note: This is the full translation of the original Russian abstract.

X

Card 3/3

S/035/61/000/002/015/016 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961, No. 2, p. 68. # 2A549

AUTHOR:

Sapar, A.

TITLE:

On the Neutrino Theory of Elementary Particles

PERIODICAL:

"Publikatsii Tartusk. astron. observ.", 1960, Vol. 33, No. 4,

pp. 221 - 280 (Engl. summary)

TEXT: On the basis of the two-component neutrino equation in the form of Weyl's equation, the author derives the Heisenberg non-linear formula for elementary particles. Mechanics of special relativity theory is briefly expounded, which is due to the condition of existence of invariant function of action. Formulae for photon and graviton fields are derived. Motion of a material point in a central-symmetric static gravitational field is considered. It is pointed out that the formalism employed by the author is free of Schwarzschild singularity. It leads to correct results for all three conclusions of the relativity theory (peri-

Card 1/2

On the Neutrino Theory of Elementary Particles

S/035/61/000/002/015/016 A001/A001

helion motion, light beam deflection, and red shift in a gravitational field) proved experimentally and yields moreover interesting results for the mass defect of a particle being in the field of other particles. There are 10 references.

From author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447120020-0

S/058/61/000/004/001/042 A001/A101

AUTHOR:

Sapar, A.

TITLE:

On the neutrino theory of elementary particles and fields

PERIODICAL:

Referativnyy zhurmal. Fizika, no 4, 1961, 31-32, abstract 4A360 ("Publikatsii Tartusk. astron. observ.", 1960, v 33, no 4, 221-280,

Engl. summary)

TEXT: This is an attempt of constructing fields and elementary particles with the aid of a single field of "primordial matter". It is presumed that this field is the neutrino field and is described by the equation of two-component neutrino in the form of Weyl equation. Using the method of doubling the space of states, the author derives the Heisenberg non-linear equation for elementary particles, and using the operation of multiplication of presentations (de Broglie fusion theory) he derives equations for electromagnetic and gravitational fields. In both cases, side-by-side with wave equations there appear additional equations which characterize the photon and graviton as being formed out of the particles of neutrino "primordial matter". The additional equation for the electromagnetic field assures its transverse nature. For the gravitational field, the analogous

Card 1/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447120020-0

S/058/61/000/004/001/042 A001/A101

On the neutrino theory of elementary particles ..

equation means that only states with the eigenvalues of graviton spin being equal to 2 and -2 can exist. The free gravitational field is described by a three-row symmetric complex tensor the spur of which is equal to zero. In considering the problem of motion of a material point in the central-symmetric gravitational field, the author obtains correct values for the advance of perihelion, displacement of the light beam passing past the Sun, and gravitational red shift in stellar spectra.

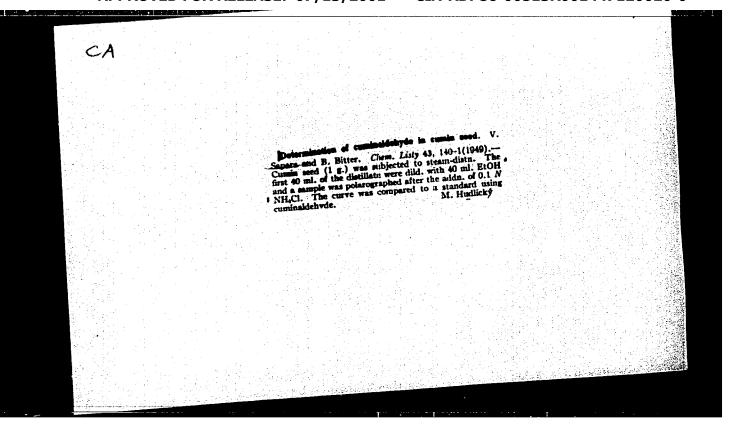
V. Astaf'yev

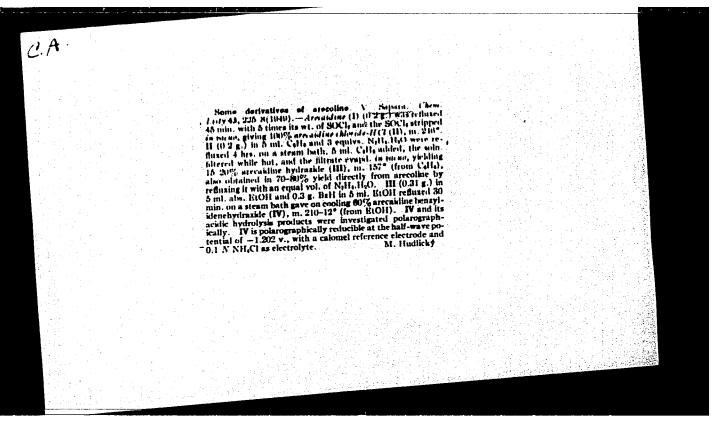
[Abstracter's note: Complete translation.]

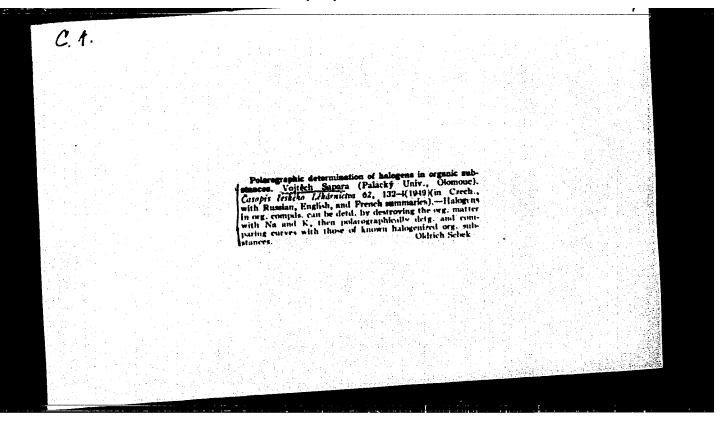
Card 2/2

L 3831-66 EWP(m)/T IJP(c) ACCESSION NR: AR5014383 UR/0058/65/000/004/B014/B014 SOURCE: Ref. zh. Fizika, Abs. 4B120 AUTHOR: TITLE: A question of the tensor of the energy-impulse of the gravitational field and the tensor of superenergy CITED SOURCE: Publikatsii Tartusk. astron. observ., v. 34, no. 1, 1963(1964), 319-358 TOPIC TAGS: tensor analysis, gravitational field, tensor TRANSLATION: An analysis is given of the problem of the energy of the gravitation al field and of gravitational emanation on the basis of an analogy with the tensor of the energy impulse of the electromagnetic field along with the formulation of the expression for the so-called "tensors of superenergy" of the gravitational field of the quadratic relative to the tensor curve $R_{\mu\alpha\beta\nu}$. In line with the known expressions of Bell, Debevye, Likhnerovich and Robinson, the author introduces a new "tensor of superenergy" having the advantage that it 1) is formulated in space Card 1/2

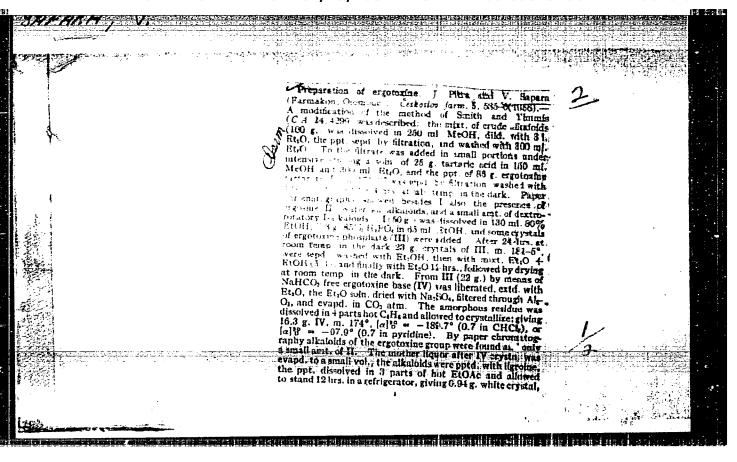
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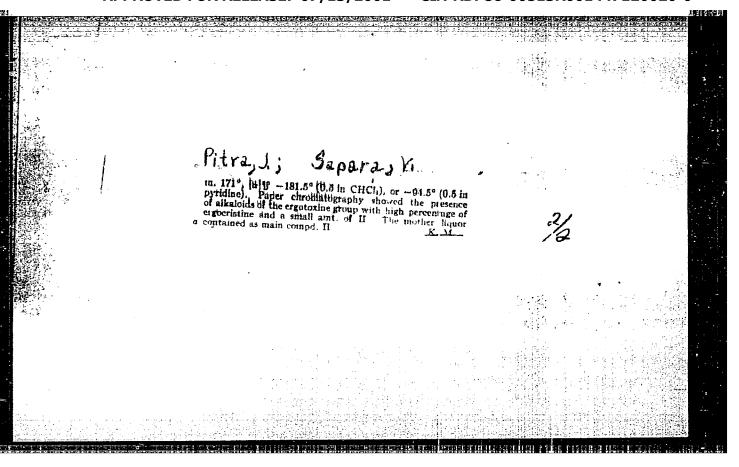


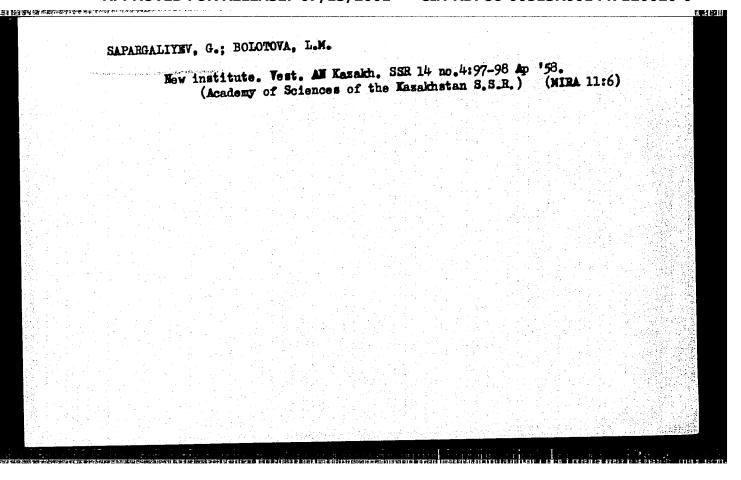




SAPARA V.		181717
	Discusses possibility of chromatographic prepa of pure morphine and codeine with Brockman's aluminum oxide. Describes isolation by chromatography of alkaloids from dried poppy seed 1817. CZECHOSLOVAKIA/Chemistry - Chromato- Dec 50 graphy (Contd) and of Bulgarian opium. Chromatographic sepn of opium bases is suitable especially when small quantities of initial material are used.	CZECHOSLOVAKIA/Chemistry - Chromato- Dec. 50







DZHUNUSOV, M.S., prof.; SUZHIKOV, M.M., kand. filos. nauk; KSHIBEKOV,D., kand. filos. nauk; SAPARGALITEV, G., kand. yurid. nauk; UTAMBETOV, S., kand. filos. nauk; ROZENBERG, TS.R., red.; ROROKINA, Z.P., tekhn. red.

[Laws governing the transition of peoples in formerly underdeveloped contries to socialism; based on the Kazakh people] O zakonomernostiakh perekhoda narodov ranee otstalykh stran k sotsializmu; na primere kazakhskogo naroda. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1961. 225 p. (MIRA 15:2)

1. Akademiya nauk Kazakhskoy SSR. Institut filosofii prava. (Kazakhstan—Economic conditions) (Kazakhstan—History)

USSR/ Farm Animals. Small Horned Stock.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40467.

: Tsoy, L. I., Sapargaliyev, G. S. Author

Inst

: Not given. : The Influence of Different Levels of Feeding on

Title the Productivity of the Fine-Wool Sheep.

Orig Pub: Ovtsevodstvo, 1957, No 8, 36-39.

Abstract: After weaning, 30 young mams of the Soviet Merino breed were divided into three groups of 10 heads each, and were subjected to different-ial feeding up to 2 years of age. During the whole period of experimentation, the young rams of the 1st group were fed an average of 155 kg. of concentrates, 116 kg. of hay, 78 kg. of silage, 251 kg. of mangel and 148 kg. of skimmilk. The animals of the 2nd group were fed (in kg.): 144, 156, 78, 254, and 133, respectively. The

Card 1/2

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SAPARGALIYEV, C.S., kand. yurid.nauk; PAL'GOV, N.N., akad.; BCGATYREV, A.S.;

AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor.

nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk;

NUSUPBEKOV, A.N., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKH
VODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk;

RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor

ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand.

pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.;

KANAPIN, A.K., kand. istor. nauk; BELKNOV, M.D., kand. ekonom. nauk;

KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A.,; SMIRNOVA, N.S.,

doktor filolog.nauk; SIL'CHKNKO, M.S., doktor filolog. nauk; YERZA
KOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTA
ROV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYD
KO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

[The Soviet Kazakh Socialist Republic] Kazakhskaia Sovetskaia Sotsialisticheskaia Respublika. Alma-Ata, Kazakhskoe gos. izd-vo, 1960. 477 p. (MIRA 14:6)

1. Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
2. Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova, Sil'chenko)

(Kazakhstan)

 SAPARGA.	LIYEV, G.S. Raising and wool breed.	utilizing h	igh-produc iia no. 3:	tive ra m 43 6– 441 M	sires of y-Je '61.	the Kaza	ch fine- 14:5)	
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PAPOROTSKIY, L.A.; DAVYDOV, S.A.; LISITSYN, G.T.; URUMOV, T.M.; SAPARGALIYEV, M.S.; SULEYMANOV, M.S.; AN, M.Ch.

Comment on the article by O.A.Baikomurov and A.F.Kovrigo on "Ways of reducing labor consuming tasks in stopping at the Dzhezkazan Mira 14:5)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuzvzryvproma,
Moskva (for Paportotskiy, Davydov). 2. Nachal'nik buro-vzryvnykh rabot
Dzhezkazganskogo rudoupravleniya (for Lisitsyn). 3. Nachal'nik
shakhty no.51 Dzhezkazganskogo rudnika (for Urumov). 4. Nachal'nik
burovzyvnykh rabot shakhty no.51 Dzhezkazganskogo rudnika (for
Sapargaliyev). 5. Zamestitel' glav.inzh. shakhty no.51 Dzhezkazganskogo
rudnika (for Suleymanov). 6. Starshiy inzh. Instituta gornogo dela
AN KazSSR (for An).

(Dzhezkazgan—Stopping (Mining) (Baikomurov, O.A.) (Kovrigo, A.F.)

BAKAYEV, M.T.; GUBIN, V.I.; SAPARGALIYEV, M.S.

Using straight cuts before drilling with a self-propelled drilling rig. Trudy Inst. gor. dela AN Kazakh.SSR 12:22-29
163. (MIRA 17:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447120020-0"

NUGMANOV, N.T.; TLEUZHANOV, K.Kh.; SAPARGALIYEV, M.S.

Results of the observation of the effect of various diameter boreholes on blasting indices. Trudy Inst. gor. dela AN Kazakh. SSR 12:151-154 '63. (MIRA 17:8)

1. Dzhezkazganskiy rudnik (for Nugmanov, Tleuzhanov). 2. Institut gornogo dela AN Kazakhskoy SSR (for Sapargaliyev).

P5P15

24,7700

S/048/62/026/011/004/021 B125/B102

AUTHORS:

Spivak, G. V., Saparin, G. V., and Pereverzev, N. A.

TITLE:

The potential distribution found in a p-n junction by means

of an electron-optical raster system

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 11, 1962, 1339-1342

TEXT: The authors discuss the possibility of visualizing the junction and of quantitatively measuring the range of the potential in p-n junctions of germanium and silicon single crystals directly and quickly, using an electron beam that scans over the surface. The method is based on the following assumptions: (1) The radius of the scanning beam has to be smaller than the width of the p-n junction; (2) the potential drop in the junction must be greater than the mean energy of the secondary electrons. The accuracy of the method in weak fields can be improved by reducing the electron energy and when the radius of the electron probe is reduced, the method can be applied to measuring potentials of thin junctions. The width of the junction can also be determined by varying the blocking

Card 1/3 -

The potential distribution ...

5/048/62/026/011/004/021 B125/B102

voltage. The potential distribution of a p-n junction is determined with the integrating circuit (12) and the oscilloscope (13) (Fig. 1). If the blocking voltage is given, the width of the junction determined by the electron-optical method is 25-30% greater than that measured with a micromanipulator. The method described here furnishes data on the dependence of the electrical structure of a p-n junction on various factors. The device displays 600 scanning lines and supplies 50 frames per sec. There are 7 figures.

ASSOCIATION:

Fizicheskiy fakul'tet Moskovskogo gos. universiteta im. M. V. Lomonosova (Physics Division of the Moscow State University imeni M. V. Lomonosov)

Fig. 1. Block diagram of the electron-optical raster system.

Legend: (1) electron gun; (2) anode cylinder; (3)-(4) magnetic lenses; (5) deflecting coils; (6) object; (7) collector; (8) amplifier; (9) the deflecting coils in the circuit of the electron probe are connected in series to the kinescope; (11) kinescope.

SPIVAK, G. "I												ektronenmil	croskop."	
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	L 36553-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD	
ſ	ACC NR: APG015759 (A, N) SOURCE CODE: UR/0048/66/030/005/0761/0763	
	AUTHOR: Spivak, G. V.; Saparin, G. V.	
	ORG: Physics Department, Moscow State University im. M.V.Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)	
	TITIE: Investigation of p-n junction by means of a scanning microscope with electron and ion bombardment of the semiconductor specimen Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965	
1	SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 30, no. 5, 1966, 761-763 TOPIC TAGS: electron microscope, ion microscope, silicon diode, pn junction, second-	
	ary electron emission The state of non-times in silicon have been observed with an ion scann-	
1	ing microscope, and the results have been compared with the results of similar observa- tions with an electron scanning microscope. The use of ion scanning was undertaken	
	because the secondary electrons due to ion bombardment have much lower energies than	
	irregularities at the surface of the specimen. The ions were produced in a cold cathode glow discharge in air. The optical system was designed to produce a 1 μ diameter scanning beam at the specimen, but the actual diameter of the scanning spot turned out	
 	Card 1/2	

L 36553-66 0 ACC NR: AP6015759 to be 10-15 μ ; this is ascribed to scattering of the ions by the residual gas in the instrument and to velocity straggling of the ions. The ion beam was caused to scan the specimen by two pairs of deflecting plates, which were synthronized with the deflecting coils of a kinescope. The secondary electrons from the specimen were collect ed by a 15 kV electrode, and the resulting signal was displayed on the kinescope. The silicon p-n junction appeared on the kinescope as a narrow dark region with a light border, or as a narrow light region with a dark border, depending on whether the n or the p region of the crystal was inclined toward the collector. The contrast of the image of the p-n junction increased with increasing back bias. At high bias potentials the contrast of the ion scanning microscope image was about the same as that of the electron scanning microscope image, but at low bias potentials the contrast of the ion scanning image was greater than that of the electron scanning image. Orig. art. has: 4 figures. 006 ORIG HEF: 002/ SUEM DATE: SUB CODE: 20/

Card 2/2/MLP

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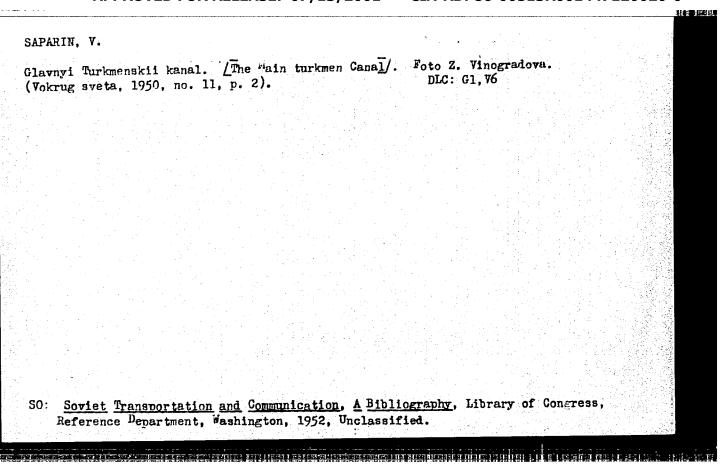
CIA-RDP86-00513R001447120020-0

IJP(c) 36559-66 EWT(1) SOURCE CODE: UR/0048/06/030/005/0787/0788 AP6015767 ACC NR: 34 Saparin, G. V.; Spivak, G. V. AUTHOR: ORG: Physics Department, Moscow State University im. M.V. Lomonosov (Fizicheskiy fakul tet Moskovskogo gosudarstvennogo universiteta) TITLE: Observation of the process of surface charging of dielectrics by means of a scanning electron microscope / Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 787-788 and inserts TOPIC TAGS: electron microscopy, surface charge, teflon, mica, plastic ABSTRACT: The build up of surface charge on teflon, mica, and plastic surfaces was observed with a scanning electron microscope. The surface of the specimen became nega tively charged as a result of the presence of the scanning beam. This surface charge was allowed to build up repeatedly until breakdown occurred while a motion picture record was made of the image on the kinescope. Thus it was possible to observe the full complex dynamics of the process. A number of frames from the motion picture record are presented. It was noticed that the surface charge tended to move preferentially along artificial scratches on the surface of the specimen. It was hypothesized that certain rope-like structures observed on some of the micrographs represent Card 1/2

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EWT(1)/TIJP(c) L 36329266 ACC NR. -APG015791 UR/0048/66/030/005/086 4/ 4483 SOURCE CODE: AUTHOR: Spivak, G.V.; Saparin, G.V.; Stepanov, S.S. THE REPORT OF THE PROPERTY OF OM: none 2 TITLI: Observation by means of a scanning electron microscope of p-n junctions subjected to a small alternating bias Report, Twelfth All-Union Conference held in Leningrad 22-26 October 1965/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 881-883 TOPIC TAGS: electron microscopy, silicon diode, pn junction, amplitude modulation, clectron beam, resonant amplifier. ABSTRACT: A modified technique was employed to observe the p-n junction of a diffused silicon diode with an electron scanning microscope. A small ac bias (1070 Hz) was applied to the diode and the usual wide band video amplifier was replaced by a band pass amplifier tuned to the bias frequency and having a pass band of about 2 Hz. The silicon diode was so mounted that the probe beam (1 micron in diameter at the object) moved perpendicularly to the junction. Oscilloscope traces of the signal developed during a single passage of the scanning beam (scanning time, 10 sec) are presented, as well as two-dimensional images recorded with a resolution of 60 lines and a scanning time of 3 sec/line (180 sec/frame). Images of the unbiased and dc biased diode re-Card 1/2

L 36329-66 0 ACC NR: AP6015791 corded with a resolution of 300 lines and a scanning rate of 50 frame/sec, using the conventional video amplifier, are presented for comparison. The position of the junctions was clearly marked on the oscilloscope trace when the bias potential was only 0.01 V, and it was very prominent when the bias was 0.05 V. When the bias potential was very low the oscilloscope record of the junction was asymmetric; this is discussed briefly. On the two-dimensional images of the ac biased diode (bias potentials 0.025 and 0.25 V) the junction appeared as two bright bands some 25 microns apart separated by a darker region. Other details of these images are ascribed to geometric features of the crystal surface. It is concluded that the use of supplementary modulation of the video signal together with a resonant amplifier increased the sensitivity to microfields of the scanning microscope by two or three orders of magnitude. Orig. art. has: 4 figures. OTH REF: 008 003/ ORIG REF: SURM DATE: SUB CODE: 20/



- 1. SAPARIN, V.
- 2. USSR (600)
- 4. Galaktionov, Vasilii
- 7. "Beginning of a great project." V. Galaktionov, A. Agranovskiy. Reviewed by V. Saparin. Vokrug sveta no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

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	SAPARINA, Ye.	
· · · · · · · · · · · · · · · · · · ·	On the world's highest summit. Znan.sila 31 no.1:27-28 Ja 156. (Mount Everest expedition, 1953) (MLRA 9:4)	

Three "respirations"	of the Earth.	Znan.sila 31	l no.3:6-10 1	ir 156.
(EarthInternal str	ucture)		(MIR/	9:7)
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				기 : 그리고 있는 기계를 즐겁게 생활할 - 기 : 그리고 있는 역 중에 불렀다. 이 기술량
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SUBJECT:

SAPA RIWA

USSR/New Printing Method

4-5-5/17

AUTHOR:

Saparina, Ye.

TITLE:

Flying Letters (Letayushchiye bukvy)

PERIODICAL:

Znaniye - Sila, May 1957, #5, pp 21-23 (USSR)

ABSTRACT:

The article conveys an interview with Ivan Josifovich Zhilevich, senior instructor of the Vilniyus Pedagocial Institute (Lithuania) who invented an electrostatic and an electromagnetic printing method. The inventor holds already six other

patents on automatics and telemechanics.

For the electromagnetic printing method, the inventor used the fact that the sound track on a magnetophone tape may be made visible by a paint consisting of iron compounds. For printing purposes, the text is "written" on a magnetophone tape by a phototelegraph system. This tape becomes the printing form enabling to make any number of copies. In order to transmit the recorded information on paper, the magnetophone tape is placed on a drum and covered by another paper tape. The magnetic field permeates the paper to which dry, metallic paint is applied by means of a special container. It is necessary to warm the

Card 1/3

4-5-5/17

TITLE:

Flying Letters (Letayushchiye bukvy)

paper to some extent in order to make the paint stick to the paper which otherwise would be rubbed off easily.

During the winter of 1955/56, the Institute of Automation and Telemechanics of the USSR Academy of Sciences and the Leningrad Polytechnical Institute passed a positive judgement on the invention. In the summer of 1956, Zhilevich reported his invention to the Scientific Research Institute of Polygraphic Machinebuilding in Moskva.

The electrostatic printing method is supposed to be an improvement of the electromagnetic method, since printing is to be achieved without the use of magnetic tape. Zhilevich used the information on researches of the American scientists Greig and Young, who had observed that ordinary art printing paper is electro-photo-sensitive by itself, since the zinc white contained in it serves as a semiconductor which abruptly changes its conductivity when exposed to light. Zhilevich tried many substances having semiconductor properties and preserving electrical charges to a greater extent than it was the case with zinc white. By chance, ordinary glue "5φ-2" was tested and found to

Card 2/ 3

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4-5-5/17

TITLE:

Flying Letters (Letayushchiye bukvy)

be useful. The functioning of the electrostatic printing method is explained by means of an experiment and it is mentioned that a model of an electrostatic printing machine has been planned

and is under construction.

Further, the article indicates the possibilities of application of the new printing methods.

The article contains 8 pictures.

ASSOCIATION: 1) Pedagogicheskiy institut, Vilniyus (Pedagogical Institute at Vilniyus). 2) Institut avtomatiki i telemekhaniki Akademii Nauk SSSR (Institute for Automation and Telemechanics of the Academy of Science USSR).

PRESENTED BY:

SUBMITTED:

At the Library of Congress. AVAILABLE:

Card 3/3

SAPARINA ye.

AUTHOR:

Saparina Ye.

4-6-7/30

What Puts the Brake on the Earth? (Chto tormozit zemlyu?)

TITLE:

Znaniye - Sila, 1957, # 6, p 10-11 (USSR)

ABSTRACT:

PERIODICAL:

The author describes methods of measuring the earth's movement, done previously by mechanical clocks which were kept in deep vaults to ensure their exact functioning. This method was not precise enough as the pendulum oscillations were subject to the pull of gravity. Therefore the pendulum was replaced by a quartz plate, oscillating by alternating current. These oscillations, more stable than the pendulum vibrations, do not depend on exterior conditions.

Then, two English astronomists, Pavel and Wink (Uink) observed that the quartz clock of the Potsdam Geodesic Institute did not work regularly; it was slow in autumn and fast in spring. The same phenomenon was observed at the Paris and Washington chronometric service. The noted British astronomer Spencer Johns stated at the Paris International Congress in 1950, that the Greenwich quartz clock showed these same irregularities in autumn and spring. This led to the conclusion that the rotation of the Earth itself caused the

Card 1/5

What Puts the Brake on the Earth?

4-6-7/30

phenomena, being faster in August and slower in March and April. This irregular movement does not only occur during the year but also over the centuries. Due to this delay an astronomical day was protracted by 0,002 seconds each century over the last 2,000 years.

The Earth's speed also suddenly increases or decreases according to no established law. The cause of this brake to the Earth's movement was the subject of a number of investigations, in particular, those of the Soviet geophysicist N.Pariyskiy. Tables were composed from which it appeared that the three observed irregularities in the Earth's rotation resulted from three different causes.

The first cause was thought to be the Antarctic Continent. It was supposed that an increase in the ice cover could influence the earth's movement over centuries, which supposition would not be theoretically wrong. Exploration of the Antarctic proved, however, that the ice cover is melting instead of increasing.

For a long time the moon was suspected of delaying the Earth's movement by causing the tides. But calculations showed that these forces were not to blame. This question remains

Card 2/5

4-6-7/30

What Puts the Brake on the Earth?

open and will be studied during the Geophysical Year. As regards the speed alterations of the Earth, most of the scientists consider that it is caused by processes inside the Earth. English scientists stated the hypothesis that the irregular oscillations in the Earth speed are due to the recrystallization processes of plutonic rocks. Other scientists believe that they may depend on alternating speeds of currents beneath the crust. Soviet scientists adhere to the first theory, and state that on the basis of calculations recrystallizations at a depth of 80 km would cause a change in the inner Earth structure and in such a way cause alterations in its speed. These changes may be observed on the surface through gravity oscillations. Research on this subject is conducted at the Institute of Earth Physics of the Academy of Sciences. They are very important and will include the whole globe during the Geophysical Year. The yearly irregularities of the Earth's speed were ex-

The yearly irregularities of the Earth's speed were explained in a rather surprising way. Jeffries, an English physicist, calculated the amount of water removed by the oceanic currents, the weight of grass and leaves, the amount of falling and melting snow, the weight of winds and stated

Card 3/5

What Puts the Brake on the Earth?

4-6-7/30

that the weight of air brought onto the continent through monsoons during the winter and flowing to the ocean in summer is equal to 300,000,000,000,000 tons. I. Monin, a Soviet scientist, stated that 31 sq km, of rocks are yearly washed from the Earth's surface. The shifting of these enormous weights disturbs the rythm of the Earth mechanism, the Earth axis deviates and the center of gravity is displaced. As a result the speed of movement changes. It was stated, more or less definitely that the wind is putting the brake on the Earth's movement. N. Pariyskiy considers that the seasonal transference of air masses is the most important cause of the slower movement.

These investigations are not only of theoretical importance. The speed of the Earth's rotation influences for instance, the amount of Coriolis force (which causes the deviation of rivers in the northern hemisphere to the right hand side and those of the southern hemisphere to the left hand side); it has also an influence on sea currents, winds, the flight of missiles and railroad transport movements.

Card 4/5

I. Maksimov a Soviet scientist stated recently that the increasing temperatures observed during the last years depend on

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What Puts the Brake on the Earth?

the alteration of Coriolis forces, affecting atmospheric circulation. This alteration was caused by a slower Earth rotation.

There are 5 sketches.

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Card 5/5

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SAPARINA, Ye

4-1-11/19

AUTHOR:

Saparina, Ye.

TITLE:

The Ordinary and the Mysterious (Obyknovennyy i zagadochnyy)

PERIODICAL:

Znaniye - Sila, 1958, # 1, pp 34 - 37 (USSR)

ABSTRACT:

This is a report on research conducted at the Snow and Ice Laboratory of the Moscow University. There are at least ten different types of snow, and scientists confirm that different localities have different types of snow. For example, snow in Central and East Siberia is not as dense as snow in the Baltic area. Snow in the far North is as hard as fluorspar snow in the Antarctic; in a few days it becomes so solid that it can

hardly be moved by a powerful bulldozer. The author then deals with avalanches and methods of removing snow by spraying it from airplanes with coloring sub-

stances which cause an early thawing.

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Card 1/1

SOV-4-58-7-2/22 Crossing the Magnetic Meridians (Peresekaya magnitnyye meri-Saparina, Ye. AUTHOR: TITLE: diany) Znaniye - sila, 1958, Nr 7, pp 1-4 (USSR) The author gives general data on the magnetism of the earth PERIODICAL: and states that solutions for the many still unsolved problems in this field can only be found with the help of artificial ABSTRACT: sputniks. In this connection, the names of the following scientists are mentioned: V. Pochtarev, Ya. Gakkel'. There are 13 caricatures. Card 1/1

(Artificial satellites)	SAPARIN	A, Ye. Celestial	geodesist. Znan. sila 33 no.3:30-34 Mr '58. (MIRA 11:4)	
			(Earth-Figure) (Artificial satellites)	

PHASE I BOOK EXPLOITATION

SOV/4141

Saparina, Yelena Viktorovna

Nebesnyy zemlemer (Celestial Surveyor). [Moscow] Izd-vo TsK VIKSM "Molodaya gvardiya," 1959. 198 p. 50,000 copies printed.

Ed.: N. Samarskaya; Tech. Ed.: N. Mikhaylovskaya.

PURPOSE: This book is intended for the young or general reader interested in astronomy and geodesy.

COVERAGE: The book presents a popular account of efforts to measure the Earth and to define its shape, and of the research, achievements, and speculations in this field. Some related problems connected with the Moon and with artificial satellites are also discussed. No personalities are mentioned. No references are given.

TABLE OF CONTENTS:

Contrary to What the Terrestrial Globe Shows

Card 1/3

- 1

3

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AUTHOR:

Saparine,

Corona of the Globe.

TITLE:

PERIODICAL:

Znaniye-Sila, 1960, No. 3, pp. 34 - 39

The author describes the research and events which led to the discovery that our globe is also surrounded by a gorona. Professor V.I. Krasovskiy attached his instruments to the outside of the third Soviet Sputnik. The equipment recorded only electrons of many kev. The Corresponding Member of the Academy of Sciences, S.N. Vernov, placed his instruments inside of the same Sputnik. Although electrons could not penetrate through the solid walls of the satellite, the braking of their movement resulted in x-radiation which was recorded by instruments. At the 5th Assembly of the MGG (International Geophysical Year), held in September 1958 in Moscow, Soviet scientists reported that x-radiation was recorded at a distance of 250-500 km from the earth, and that the intensity of the electronic current was extraordinarily high. Thus, the earth is surrounded by belt of powerful electrons which increase towards the equator. They produce Xradiation upon reaching the atmosphere and this radiation is the corona of the earth. Scientists differ in opinion as to the origin of these charged particles.

Card 1/2

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Corona of the Globe

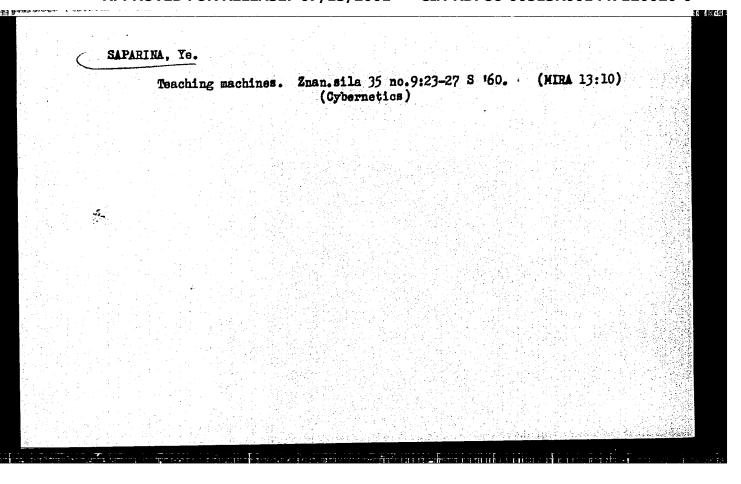
Members of the Section of Upper Atmosphere of Institut fiziki i atmosferi Akedemii nauk SSSR (Institute of Physics and Atmosphere of the AS, USSR) and its head Professor Valerian Ivanovich Krasovski state that the appearance of electrons is caused by the sun. Professor Sergey Nikolayevich Verney is of the opinion that the corona is caused by a corpuscular radiation of the earth. At the annual meeting of Sektsiya fiziki i matematiki (Section of Physics and Mathematics) S.N. Vernov drew attention to the results obtained by experimental globes which were shot into space from Murmansk and Dolgoprudnaya near Moscow during the IGY. They showed that at least once a year relatively high-energy particles emerge from cosmic space.



Card 2/2

"Earth surveyor i no. 4:76 Ap 160.	n the skies" by E.Saparina. (Earth—Figure)	Nauka i zhizn' 27 (MIRA 14:5)	

SAPA	RINA, Ye.		
	Earth's corona. (Part (Atmo	Zman.sila 35 no.3:34-35 icles (Muclear physics)) sphere, Upper)	Hr '60. (MIRA 13:6)



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		Machine d	liagnosis.	Zoan. s	ila 35 no. 12:	32-34 D 1	60. (MIRA 13:12)	
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AUTHOR:

Saparina, Ye.

TITLES

Transmitters outside and within us

PERIODICAL: Znaniye-sila, no. 6, 1961, 34 - 35

TEXT: The author briefly discusses certain aspects of the application of manufactured and natural transmitters in the field of physiology. In a recent experiment it was shown that approximately 50 mg. of blood flowed into the brain of a man as he was solving an arithmetical problem. The effects on the functioning of his brain were studied by means of minute transmitters—devices consisting of quartz crystals, electromagnets and photoelements. The applications of transmitters have been known to engineers for some time, but it is only recently that they have been used for studying living organisms. The utilization of transmitters represents an advance on the more conventional methods of investigating and measuring

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Transmitters outside and ...

pulse, heart and muscle movements. Electronics plays the all-important role in collecting, amplifying and recording electric signals induced by rhythmic contractions of the heart, respiratory movements of the chest and invisible vibrations of muscular fibers. After describing the main measuring apparatus, the author points out that its effectiveness was recently demonstrated in a factory when the great difference between the working movements of a skilled turner and those of a new apprentice was detected by such transmitters. Moreover, it is also possible to utilize transmitters for studying the effects of heart constrictions -- e.g. the displacement of the center of gravity of the chest during each successive heart-beat. After an elementary description of the human nervous system, it is pointed out that biochemists have long wished to find out what takes place in a molecule during its chemical conversion and to observe all the vicissitudes of these minute particles of matter. Ideally, this could be accomplished by placing transmitters at different points on the molecules as is done by biologists when studying human

Card 2/3

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Transmitters outside and ..

organs that are inaccessible to direct observation. Such minute transmitters, however, cannot be constructed, but it is possible to utilize the so-called free electrons present in living molecules for this purpose. These free electrons, which resemble tiny magnets, are noted in the debris of many molecules and are the result of the rupture of molecular bonds. Thus, the fate of molecules may be ascertained by probing these unusual "transmitters" with a ray from a special apparatus Abstractor's note: Not described. If the molecules near the "transmitters" are unbroken or have no identifiable sign, the recording screen remains blank. Should the ray, however, come into contact with any free electrons, signals are transmitted onto the screen, and data is hence obtained on processes taking place within the human body. There are 3 figures.

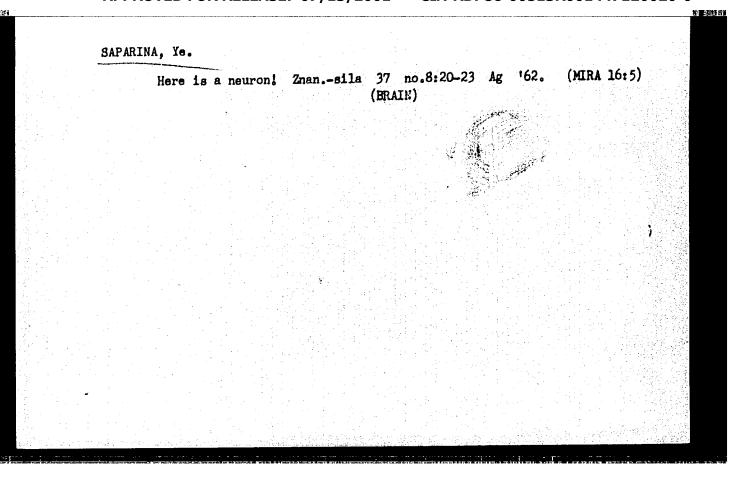
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SAPAR	KIN, N.Ya. (Chuvashskeya ASSR)
	How we succeeded in lowering the incidence of trachoma. Med.sestra 17 no.2:26-27 F '58. (MIRA 11:3) (CONJUNCTIVITIS, GRANULAR)

•	Therapeuti akush. 23	no.10:35-37	Plactic services 0 !58 MUVASH A.S.S.R.)	Fel'd. i (MIRA 11:11)	

SAPARKIN, N.Ya., fel'deher (derevnya Shigali Chuvashskoy ASSR)

Guarding public health for forty-four years. Fel'd, i akush. 25
no.1:56-57 Ja '60. (MIRA 13:4)

(MAKSIMOV, PAVEL MAKSIMOVIGH)